

PROJECT REPORT

**ANALYTICAL METHOD DEVELOPMENT & VALIDATION FOR MEPHENESIN  
IN BULK DRUG BY UV-SPECTROPHOTOMETRY**

A Project Report Submitted To  
**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

**Mr.Khan Mohd. Sahil Jahid, (Roll. No.22)**  
**Ms. Khankal Snehal Suresh, (Roll. No.23)**  
**Ms. Kothari Komal Suresh, (Roll. No.24)**  
**Ms. Tiwari Sakshi Anil, (Roll. No.63)**  
Fourth Year B.Pharm (Sem -VIII)

**UNDER THE GUIDANCE OF**

**Dr. Neenu Ganesh**  
Assistant Professor  
Department of Pharmaceutical Chemistry  
Oriental College of Pharmacy, Sanpada



April, 2023

# DECLARATION

We, hereby declare that this practice school project report entitled "ANALYTICAL METHOD DEVELOPMENT & VALIDATION FOR MEPHENESIN IN BULK DRUG BY UV-SPECTROPHOTOMETRY" comprises the bonafide work I carried out in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of Dr. Neenu Ganesh, Assistant Professor, Department of Pharmaceutical chemistry Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.



Mr. Khan Mohd. Sahil Jahid (22)



Ms. Khankal Snehal Suresh, (23)



Ms. Kothari Komal Suresh (24)



Ms. Tiwari Sakshi Anil (63)

Place: Sanpada

Date:

**CERTIFICATE**

*This is to certify that this project report entitled "Analytical Method Development & Validation For Mephenesin In Bulk Drug By Uv-Spectrophotometry" is the bonafide project work carried out by Mr. Khan Mohd. Sahil Jahid (22), Ms. Khankal Snehal Suresh, (23), Ms. Kothari Komal Suresh (24), and Ms. Tiwari Sakshi Anil (63), under my guidance for the project for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.*

**Guide**



**Dr. Neenu Ganesh**  
Assistant Professor  
Department of Pharmaceutical Chemistry  
Oriental College of Pharmacy  
Sanpada, Navi Mumbai

**Co-guide**



**Mr. Shoaib Ansari**  
Assistant Professor  
Department of Pharmaceutical Chemistry  
Oriental College of Pharmacy  
Sanpada, Navi Mumbai

**Place: Sanpada**

**Date:**

(6)

**ANALYTICAL METHOD DEVELOPMENT AND VALIDATION OF SITAGLIPTIN BY  
UV SPECTROSCOPY USING AREA UNDER CURVE METHOD**

A project report submitted to

**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**

University of Mumbai



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

**Mr. Nemade Soham Shailesh, (Roll no. 36)**

**Mr. Nishad Anish Devendra, (Roll no. 37)**

**Ms. Panchal Janhavi Rajendra, (Roll no. 39)**

**Ms. Pandey Shweta Santosh, (Roll no. 41)**

Fourth Year B.Pharm (Sem - VIII)

Under the guidance of

**Mr. Ansari Shoaib, Ms. Jhilika Singh**

Assistant Professor

Department of Pharmaceutical Chemistry

**O.E.S's Oriental College Of Pharmacy, Sanpada**



April, 2023

# DECLARATION

I hereby declare that this project report entitled “Analytical Method Development and Validation of Sitagliptin by UV Spectroscopy using AUC Method” comprises of the bonafide research work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of **Mr. Ansari Shoaib**, Assistant Professor, Department of Pharmaceutics and **Ms. Jhilika Singh**, Assistant Professor, Department of Pharmaceutical Chemistry, Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Place: Sanpada

Date: 08/04/23

**Candidate's name & sign**

*Soham S. Nemade*

Soham S. Nemade (36) Final yr B.Pharm

*Anish D. Nishad*

Anish D. Nishad (37) Final yr B.Pharm

*Janhavi R. Panchal*

Janhavi R. Panchal (39) Final yr B.Pharm

*Shweta S. Pandey*

Shweta S. Pandey (41) Final yr B.Pharm

# CERTIFICATE

*This is to certify that this project report entitled "Analytical Method Development and Validation of Sitagliptin by UV Spectroscopy using AUC Method" is the bonafide project work carried out by Mr. Nishad Anish Devendra, Mr. Nemade Soham Shailesh, Ms. Panchal Janhavi Rajendra, and Ms. Pandey Shweta Santosh, under my guidance for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.*

Guide name



**Mr. Ansari Shoaib, Ms Jhilika Singh  
(Assistant Professor),  
Department of Pharmaceutical Chemistry**

Place: Sanpada

Date: 08/04/23

**“Design, development and evaluation of chewable tablets  
containing Flaxseeds.”**

A Practice School Project Report Submitted To

**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

**Ms. Ramugade Shweta Ravindranath (Roll No- 45)**

**Mr. Rathi Swarup Pradip (Roll No- 46)**

Fourth Year B.Pharm (Sem - VIII)

Under the guidance of  
**Mr. Nilesh Babre**  
Assistant Professor  
Department of Pharmacology  
Oriental College of Pharmacy, Sanpada



## DECLARATION

I hereby declare that this practice school project report entitled “**Design, development and evaluation of chewable tablets containing Flaxseeds**” comprises of the bonafide work carried out by me in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of **Mr. Nilesh Babre** (Assistant Professor) Department of Pharmacology Oriental College of Pharmacy, Sanpada. The results presented in this project report are true to the best of my knowledge and have not previously formed the basis for the award of any degree.

Place: Sanpada

  
**Ms. Ramugade Shweta Ravindranath, (45)**

  
**Mr. Rathi Swarup Pradip, (46)**



This is to certify that this project report entitled “Design, development and evaluation of chewable tablets containing Flaxseeds” is the bonafide project work carried out by Ms. Ramugade Shweta Ravindranath, (45) and Mr. Rathi Swarup Pradip, (46) under my guidance for the Practice School for the degree of “Bachelor of Pharmacy” at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.

*N/B/S*  
*10/04/2023*  
**Mr. Nilesh Babre**  
**Guide name**  
(Assistant Professor)  
Department of Pharmacology

Place: Sanpada

Date:

PROJECT REPORT

**Establishment and Validation of Spectrophotometric method for the Estimation  
of Mirabegron and Solifenacin by Absorption Ratio Method**

A Practice School Project Report Submitted To

**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

**Mr. Nadar Alexlivingston Mohandas, (Roll no 34).  
Mr. Nainapatruni Ashwin Sreenivasu, (Roll no 35).  
Mrs. Rajbhar Pinky Ashok, (Roll no 44).  
Fourth Year B.Pharm (Sem - VIII)**

Under the guidance of  
**Dr. Snehalatha Boddu**  
M pharm, PhD. Associate Professor  
Department of Quality Assurance  
Oriental College of Pharmacy, Sanpada



April 2023

**DECLARATION**

We hereby declare that this practice school project report entitled "Establishment and Validation of Spectrophotometric method for the Estimation of Mirabegron and Solifenacin by Absorption Ratio Method" comprises of the bonafide work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of Dr. Snehalatha Boddu Associate Professor, Department of Quality Assurance Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Place: Sanpada.

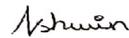
Date: 11/04/23

Candidate's name & sign

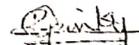
Mr. Nadar Alexlivingston Mohandas



Mr. Nainapatruni Ashwin Sreenivasu.



Mrs. Rajbhar Pinky Ashok.



**CERTIFICATE**

This is to certify that this project report entitled "Establishment and Validation of Spectrophotometric method for the Estimation of Mirabegron and Solifenacin by Absorption Ratio Method" is the bonafide project work carried out by Mr. Nadar Alexlivingston Mohandas, (Roll no 34). Mr. Nainapatruni Ashwin Sreenivasu, (Roll no 35). Mrs. Rajbhar Pinky Ashok, (Roll no 44) under my guidance for the Practice School for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.

*P. Snehalatha*

**Guide name: Dr. Snehalatha Boddu**  
**M pharm, PhD**  
**Associate Professor**  
**Quality Assurance**

**Place: Sanpada.**

**Date: 11/04/23**

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# PROJECT REPORT

**Design of Herbal Sprinkle Formulation for the Treatment of Iron Deficiency**

A Project Report Submitted To

**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

- Mr. Mishra Deepak SantoshKumar (Roll no.29)**
- Mr. Choudhary Mohd Suhel Mohd Rais (Rollno.30)**
- Ms. Moily Hashita Umesh (Roll no.31)**
- Ms. Mukadam Javeria Farooque (Rollno.32)**
- Mr. Mulla Sahil Jamil (Roll no.33)**

Fourth Year B.Pharm (Sem - VIII)

Under the guidance of

**Mrs.Varsha Patil**

**M.Pharm,Assistant Professor Of Pharmaceutics, Oriental College of Pharmacy, Sanpada**

April 2023



## PROJECT REPORT



We hereby declare that this project report entitled "Design of Herbal sprinkle formulation for treatment of Iron deficiency" comprises the bonafide work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of Mrs. Varsha Patil, Assistant Professor, Department of Pharmaceutics Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Place : Sanpada

Date: 23/4/23

Candidate Name & Signature -

Mr. Mishra Deepak SantoshKumar (Roll no.29) *Deepak*

Mr. Choudhary Mohd Suhel Mohd Rais (Rollno.30) *Suhel*

Ms. Moily Hashita Umesh (Roll no.31) *Hashita*

Ms. Mukadam Javeria Farooque (Roll no.32) *Javeria*

Mr. Mulla Sahil Jamil (Roll no.33) *Sahil*

---

## PROJECT REPORT



This is to certify that this project report entitled “**Design of Herbal Sprinkle formulation for treatment of Iron deficiency**” is the bonafide project work carried out by.

**Mr. Mishra Deepak SantoshKumar Mishra (Roll no.29),**

**Mr.Choudhary Mohd. Suhel Mohd Rais(Rollno.30),**

**Ms.Moily Hashita Umesh(Roll no.31),**

**Ms.Mukadam Javeria Farooque (Rollno.32),**

**Mr.Mulla Sahil Jamil (Roll no.33),**

Under my guidance for the Practice School for the degree of “**Bachelor of Pharmacy**” at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.

**Mrs. Varsha Patil**

(Assistant Professor)

Department of Pharmaceutics

Place : Sanpada

Date: 23/4/23

**ANTIBACTERIAL ACTIVITY OF PHENYL THYMOQUINONE  
SYNTHESIZED FROM THYMOQUINONE EXTRACTED FROM  
NIGELLA SEEDS**

A project report submitted to

**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**



In partial fulfillment of the degree of

**BACHELOR OF PHARMACY**

By

**Ms. Madiha Chikte , Roll no 03  
Ms. Sadiya Chowdhary, Roll no 04  
Ms. Avantika Dubey, Roll no 05  
Ms. Shikha Dubey, Roll no 06**

**FOURTH YEAR B.PHARMACY (SEMESTER VIII)**

Under the guidance of

**Dr. Mohib Khan**

**Prof. and Vice Principal**

**O.E.S's Oriental College Of Pharmacy, Sanpada**



**APRIL 2023**



**DECLARATION**

We hereby declare that this project report entitled "ANTIBACTERIAL ACTIVITY OF PHENYL THYMOQUINONE SYNTHESIZED FROM THYMOQUINONE EXTRACTED FROM NIGELLA SEEDS" comprises of the bonafide research work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of **Dr. Mohib Khan** Professor, Department of Pharmacognosy and Phytochemistry, Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of our knowledge.

**Ms. Madiha Chikte , Roll no 03-**

**Ms. Sadiya Chowdhary, Roll no 04-**

**Ms. Avantika Dubey, Roll no 05-**



**Ms. Shikha Dubey, Roll no 06-**

**Place : Sanpada , Navi Mumbai**

**Date: 8<sup>th</sup> APRIL 2023**



**CERTIFICATE**

*This is to certify that this project report entitled "ANTIBACTERIAL ACTIVITY OF PHENYL THYMOQUINONE SYNTHESIZED FROM THYMOQUINONE EXTRACTED FROM NIGELLA SEEDS" is the bonafide project work carried out by Ms. Madiha Chikte, Ms. Sadiya Chowdhary, Ms. Avantika Dubey, Ms. Shikha Dubey in the laboratories of Oriental College Of Pharmacy, Sanpada under the guidance of of Dr. Mohib Khan Professor, Department of Pharmacognosy and Phytochemistry, Oriental College of Pharmacy Sanpada for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.*



**Dr. Mrs. Sudha Rathod**  
**Principal**

Place: Sanpada

Date:

PROJECT REPORT

**DESIGN & EVALUATION OF THE ANTIFUNGAL  
ACTIVITY  
OF *Bambusa arundinacea* HERBAL GEL**

A Project Report Submitted To  
**UNIVERSITY OF MUMBAI**  
MUMBAI, MAHARASHTRA, INDIA



In partial fulfillment of the degree of

**Bachelor of Pharmacy**  
By

**Mr. Khan Mohammad Bilal Raza, (Roll. No:20)**  
**Mr.Khan Mohd Rafik Mohd Naeem, (Roll. No :21)**  
**Mr.Mane Harsh Digambar (Roll. No : 27)**

Fourth Year B.Pharm (Sem - VIII)

**Under the guidance of**  
**Mr. Abhijit Mohan Kanavaje**  
Assistant Professor  
Department of Pharmaceutics  
**O.E. S's Oriental College Of Pharmacy, Sanpada**



**A.Y 2022-2023**



DECLARATION

I hereby declare that this practice school project report entitled “**DESIGN & EVALUATION OF THE ANTIFUNGAL ACTIVITY OF *Bambusa arundinacea* HERBAL GEL**” comprises of the bonafide work carried out by me in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of **Mr. Abhijit. M. Kanavaje, Assistant Professor Department of Pharmaceutics OCP, Sanpada** The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Place: Sanpada

Date: 08/04/23

Mr. Khan Mohammad Bilal Raza, (Roll. No :20) *Bilal Khan*

Mr. Khan Mohd Rafik Mohd Nacem, (Roll. No:21) *R Khan*

Mr. Mane Harsh Digambar (Roll. No : 27) *Harsh*



This is to certify that this project report entitled “**DESIGN & EVALUATION OF THE ANTIFUNGAL ACTIVITY OF *Bambusa arundinacea* HERBAL GEL**” is the bonafide project work carried out by **Mr. Khan Mohd Bilal Raza, Mr. Khan Mohd Rafik Mohd Nacem, Mr. Mane Harsh Digambar**, under my guidance for the degree of “Bachelor of Pharmacy” at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.

Guide Name

**Mr. Abhijit. M. Kanavaje,**  
**Assistant Professor**  
**Department of Pharmaceutics OCP, Sanpada**

Place: Sanpada

Date: 08/03/2023

**PROJECT REPORT**

**Comparative study on Anti-bacterial activity of Aqueous extract of  
ELWA & SURANJAN with Standard Antibiotic.**

A project report submitted to

**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**

University of Mumbai



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

MR. VERMA RATNESH KUMAR (ROLL NO 66)

MS. YADAV PRIYANKA SURESHCHANDRA (ROLL.NO 68)

Fourth Year B.Pharm (Sem - VIII)

Under the guidance of

**MRS. SANA R. SHAIKH**

Assistant Professor, Department of Pharmacology.  
O.E.S's Oriental College Of Pharmacy, Sanpada



April, 2023

**DECLARATION**

We hereby declare that this project report entitled "Comparative study on Anti-bacterial activity of Aqueous extract of *ELWA* & *SURANJAN* with standard antibiotic." comprises of the bonafide research work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of Mrs. Sana R. Shaikh, Assistant Professor, Department of Pharmaology, Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Place: Sanpada

Candidate's name & sign

Date: 12/04/2023



**MR. RATNESH KUMAR VERMA (ROLL NO: 66)**



**MS. PRIYANKA YADAV (ROLL.NO: 68)**

CERTIFICATE

This is to certify that this project report entitled "Comparative study on Antibacterial activity of Aqueous extract of *ELWA* & *SURANJAN* with standard antibiotic." is the bonafide project work carried out by Mr. Ratnesh Kumar Verma and Ms. Priyanka Sureshchandra Yadav, under my guidance for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.



**Project Guide**

**MRS. SANA R. SHAIKH**  
Assistant Professor  
Department of Pharmacology  
Oriental college of Pharmacy, Sanpada

Place: Sanpada

Date: 12/04/23

# Exploring the therapeutic potential of omega-3 polyunsaturated fatty acid cream in contact dermatitis

A Practice School Project Report Submitted  
To

University of Mumbai,  
Mumbai, Maharashtra, India

University of Mumbai



In partial fulfillment of the degree of **Bachelor of Pharmacy** by

**Mr. Mohit Vilas Tupone ( Roll No. 64)**

**Mr. Ashish Dinesh Upadhyay ( Roll No. 65)**

Fourth Year B.Pharm (Sem - VIII)

Under the guidance of

**Ms. Sanie Zehra Shaikh**

Assistant Professor

Department of Pharmacology

**Oriental College of Pharmacy, Sanpada**



Oriental college of Pharmacy , Sanpada

## DECLARATION

I hereby declare that this practice school project report entitled "**Exploring the therapeutic potential of omega-3 polyunsaturated fatty acid cream in contact dermatitis**" comprises of the bonafide work carried out by me in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of Ms. Sanie Zehra Shaikh, Assistant Professor, Department of Pharmacology Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Place: Sanpada

Date: 10/04/2023

Student's name & signature

Mr. Mohit Vilas Tupone

Mr. Ashish Dinesh Upadhyay

## CERTIFICATE

This is to certify that this project report entitled "Exploring the therapeutic potential of omega-3 polyunsaturated fatty acid cream in contact dermatitis" is the bonafide project work carried out by Mr Mohit Vilas Tupone (Roll No. 64) And Mr. Ashish Dinesh Upadhyay (Roll No. 65), under my guidance for the Practice School for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.



Guide name

Ms. Sanie Zehra Shaikh  
Assistant Professor  
Department of Pharmacology

Place: Sanpada

Date: 10/04/2023

**Evaluation of herbal extract on cock ileum for gastric motility**

**Project report on**  
Evaluation of herbal extract on cock ileum for gastric motility  
**University of Mumbai, Maharashtra, India**



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

Submitted by

Mr. Narsinha Magan Jadhav (Roll no.13)

Ms. Rajeshree Janardhan Jadhav (Roll no 14)

Ms. Harshali Prakash Jaiswal (Roll no 15)

Ms. Roli Santosh Pandey (Roll no 40)

**Final Year B. Pharmacy Semester-VIII**

(Academic year 2022-2023)



Under the guidance of

**Dr.(Mrs). Vanita G. Kanase**

**Associate Professor, Department of Pharmacology**

**O.E.S's Oriental college of pharmacy, Sanpada, Navi mumbai -400705**

## Acknowledgement

We wish to express our gratitude and sincere thanks to our college authorities and our honorable principal Dr.(Mrs). Sudha Rathod for all the support and encouragement.

We are deeply indebted to our guide Dr. (Mrs) Vanita G Kanase for her guidance during each and every stage of this work right from selection of the topic, literature survey, presentation and submission of this report.

We are thankful to all our respected teachers for their inspiration, our librarian and all technical staff for their cooperation.

Lastly, special thanks to our family and all lovable friends for their support throughout.

Mr.Narsinha Magan Jadhav(Roll no.13)



Ms. Rajeshree Janardhan Jadhav(Roll no. 14)

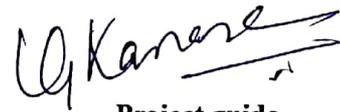
Ms..Harshali Prakash Jaiswal (Roll no 15)

Ms. Roli Santosh Pandey (Roll no. 40)



## CERTIFICATE

This is to certify that this project report entitled, " Evaluation of herbal extract on cock ileum for gastric motility "by Mr. Narsinha Magan Jadhav, Ms. Rajeshree Janardhan Jadhav, Ms. Harshali Prakash Jaiswal, Ms. Roli Santosh Pandey a , is the bonafide project work carried out by being submitted in the partial fulfillment of the requirement of eight semesters of "Bachelor of Pharmacy "course is based on their bonafide work done in the academic year 2022-23 at Oriental college of pharmacy, Sanpada, Navi mumbai, under my guidance and supervision. The results presented in this project report have not previously formed the basis for the award of any degree.



Project guide

Dr.(Mrs) Vanita.G.Kanase  
Associate Professor,  
Department of Pharmacology

Place: Sanpada, Navi mumbai

Date: 8/4/2023

Page. 2

OES's Oriental College of Pharmacy, Sanpada, Navi-Mumbai: 400705

**FORMULATION AND EVALUATION OF ATORVASTATIN CALCIUM  
TRIHYDRATE EMULGEL**

A project report submitted to

**University of Mumbai, Mumbai, Maharashtra, India**

University of Mumbai



In partial fulfillment of the degree of

**Bachelor of Pharmacy (Final Year B. Pharm, Semester-VIII)**

By

Ms. Tak Ravina Babulal, (Roll No: 59)  
Ms. Tamboli Alfiya Altaf, (Roll No: 60)  
Mr. Thakur Apoorv Jitendrakumar, (Roll No: 61)  
Mr. Tiwari Priyank Ramsagar, (Roll No: 62)

Under the guidance of

**Mr. Vijay Ikale**  
Assistant Professor  
Department of Pharmaceutical Chemistry

**Mr. Melroy Mervyn D'Sa**  
Assistant Professor  
Department of Pharmaceutics



April, 2023

## DECLARATION

We hereby declare that this project report entitled "FORMULATION AND EVALUATION OF ATORVASTATIN CALCIUM TRIHYDRATE EMULGEL" comprises of the bonafide research work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of Mr. Vijay Ikale, Assistant Professor, Department of Pharmaceutical Chemistry, Mr. Melroy D'Sa, Assistant Professor, Department of Pharmaceutics, Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Ms. Tak Ravina Babulal, (Roll No: 59)

Ms. Tamboli Alfiya Altaf, (Roll No: 60)

Mr. Thakur Apoorv Jitendrakumar, (Roll No: 61)

Mr. Tiwari Priyank Ramsagar, (Roll No: 62)

*Babulal*

*Alfiya*

*Apoorv*

*Priyank*

Place: Sanpada

Date: 12/04/2023

CERTIFICATE

This is to certify that this project report entitled "FORMULATION AND EVALUATION OF ATORVASTATIN CALCIUM TRIHYDRATE EMULGEL" is the bonafide project work carried out by Mr. Vijay Ikale, Assistant Professor, Department of Pharmaceutical Chemistry, Mr. Melroy D'Sa, Assistant Professor, Department of Pharmaceutics, under our guidance for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.

**Research Guides:**



Mr. Vijay Ikale  
Assistant Professor  
Department of Pharmaceutical Chemistry



Mr. Melroy D'Sa  
Assistant Professor  
Department of Pharmaceutics

**Place:** Sanpada

**Date:** 12/04/2023

PROJECT REPORT

**"DESIGN AND EVALUATION OF TRANSDERMAL FILMS OF ATENOLOL"**

A Project Report Submitted To

**University of Mumbai,  
Mumbai, Maharashtra, India**



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

**Ms. Heena Shaikh (Roll No 51)**

**Ms. Saziya Shaikh (Roll No 52)**

**Mr. Sanjit Shinde (Roll No 53)**

**Mr. Shitla Prasad Patwa (Roll No 54)**

Fourth Year B.Pharm (Sem - VIII)

**Under the guidance of  
Mr. Pawan Kumar Chopade  
Assistant Professor Department of  
Pharmaceutical Chemistry  
Oriental College of Pharmacy, Sanpada**



April, 2023

DECLARATION

We hereby declare that this practice school project report entitle "**Design And Evaluation Of Transdermal films Of Atenolol**" comprises of the bonafide work carried out by all of us together in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of **Mr. Pawan Kumar Chopde Assistant Professor Department Of Pharmaceutical Chemistry** at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Place: Sanpada

Date:

**Candidate's name & sign**

Ms. Heena Shaikh (Roll No 51)

Ms. Saziya Shaikh (Roll No 52)

Mr. Sanjit Shinde (Roll No 53)

 Mr. Shitla Prasad Patwa (Roll No 54)

## PROJECT REPORT

### CERTIFICATE

This is to certify that this project report entitled “**Design And Evaluation Of Transdermal films Of Atenolol**” is the bonafide project work carried out by students

**Ms. Heena Shaikh (Roll No 51)**

**Ms. Saziya Shaikh (Roll No 52)**

**Mr. Sanjit Shinde (Roll No 53)**

**Mr. Shitla Prasad Patwa (Roll No 54)**

Under my guidance for the Practice School for the degree of “**Bachelor of Pharmacy**” at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.



**Mr. Pawan Kumar Chopade Assistant**

**Professor Department of Pharmaceutical**

Place: Sanpada

Date:

**Formulation and Evaluation of Luliconazole gel for dermal use.**

A Practice School Project Report Submitted To

**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

**Mr. Singh Anand Hiralal, (Roll. No. 55)  
Ms. Singh Pragya Rajkumar, (Roll. No. 56)  
Ms. Singh Rumi Brijesh, (Roll. No. 57)  
Mr. Pratik Prakash Sonawane, (Roll. No. 58)  
Fourth Year B.Pharm (Sem - VIII)**

**Under the guidance of  
Mrs. Aparajita Patil  
Assistant Professor  
Department of Pharmaceutics.  
Oriental College of Pharmacy, Sanpada**



**April, 2023**



**DECLARATION**

We hereby declare that this practice school project report entitled “**Formulation and Evaluation of Luliconazole gel for dermal use**” comprises the bonafide work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of **Mrs. Aparajita Patil**, Assistant Professor, Department of Pharmaceutics, Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of our knowledge.

Place: Sanpada

Date: 10/04/2023

**Candidate's name & sign**

Mr. Anand Singh,

Ms. Pragya Singh,

Ms. Rumi Singh,

Mr. Pratik Sonawane.



**CERTIFICATE**

This is to certify that this project report entitled "*Formulation and Evaluation of Luliconazole gel for dermal use*" is the bonafide project work carried out by **Mr Anand Singh, Ms. Pragya Singh, Ms. Rumi Singh and Mr. Pratik Sonawane** under my guidance for the Practice School for the degree of "**Bachelor of Pharmacy**" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.

**Guide name**



**Mrs. Aparajita Patil,**  
Assistant Professor,  
Department of Pharmaceutics.

Place: Sanpada

Date: 10/04/2023

**“PREPARATION AND EVALUATION OF KALONJI OIL BASED EMULGEL”**

Project Report Submitted to

**UNIVERSITY OF MUMBAI, MUMBAI, MAHARASHTRA, INDIA**



In partial fulfillment of the Degree of

**Bachelor of Pharmacy (Final Year B. Pharm, Sem- VIII)**

By

Mr. Vishal Arunkumar Jaiswal (Roll No:16)

Mr. Anup Sudarshan Yadav (Roll No:67)

Under the guidance of

**Dr. (Mrs.) Vandana Jain**  
Professor and HOD  
Department of Quality Assurance

And

**Mr. Melroy M. D'Sa**  
Assistant Professor  
Department of Pharmaceutics



**OES's Oriental College of Pharmacy, Sanpada.**

April, 2023

## ACKNOWLEDGEMENT

We wish to express our sincere thanks to our College authorities and our honourable Principal Dr. (Mrs.) Sudha Rathod for their kind help and encouragement.

We are deeply indebted to our guide Dr. (Mrs.) Vandana Jain and Mr. Melroy M. D'Sa for their guidance regarding each and every aspect of this work right from selection of the topic, literature survey, presentation and submission of this report.

We are grateful to our teachers for their inspiration, our librarian and laboratory staff for their cooperation.

Lastly, special thanks to our family and our friends for their moral support.

Mr. Vishal Arunkumar Jaiswal (Roll No:16)

Mr. Anup Sudarshan Yadav (Roll No:67)

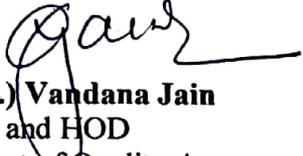
*Vishal*  
*Anup Yadav*

**Place:** Sanpada

**Date:** 10/4/23

## CERTIFICATE

This is to certify that this project report entitled "PREPARATION AND EVALUATION OF KALONJI OIL BASED EMULGEL" is the bonafide project work carried out by Mr. Vishal Arunkumar Jaiswal and Mr. Anup Sudarshan Yadav under our guidance for the Project Work for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.

  
**Dr. (Mrs.) Vandana Jain**  
Professor and HOD  
Department of Quality Assurance

  
**Mr. Melroy M. D'Sa**  
Assistant Professor  
Department of Pharmaceutics

**Place:** Sanpada

**Date:** 10/4/23

PROJECT REPORT

**EVALUATION OF SYZYGIUM CUMINI BARK FOR ITS WATER PURIFICATION  
ACTIVITY**

A Project Report Submitted To  
**UNIVERSITY OF MUMBAI,  
MUMBAI, MAHARASHTRA, INDIA**

University of Mumbai



In partial fulfillment of the degree of

**Bachelor of Pharmacy**

By

**Mr. RAWA AAMIR KHURSHEED, (Roll. No.47)**  
**Ms. SAMPATE SNEHA BALAJI, (Roll. No.48)**  
**Ms. SAYYED NAAZRIEENFATIMA AFTAB, (Roll. No.49)**  
**Mr. SHAH HARSH SANJAY, (Roll. No.50)**  
Fourth Year B. Pharm (Sem - VIII)

**Under the guidance of  
Dr. Manasi Gholkar**

Assistant Professor  
Department of Pharmacognosy  
**Oriental College of Pharmacy, Sanpada, Navi Mumbai**



April, 2023

Page 1 of 31

PROJECT REPORT

DECLARATION

I hereby declare that this practice school project report entitled "EVALUATION OF SYZYGIUM CUMINI BARK FOR ITS WATER PURIFICATION ACTIVITY" comprises of the bonafide work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of DR. MANASI GHOLKAR, Assistant Professor, Department of Pharmacognosy, Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Candidate's name & sign

*Amir* Aamir Rawu(Roll no.47), Sneha  
*Sneha* Sampate(Roll no.48), Nuazrieenfatima  
*Harsh* Sayyed(Roll no.49),  
*Harsh* Harsh Shah(Roll no.50).

Place: Sanpada, Navi Mumbai

Date:

# FORMULATION OF ANTI ARTHRITIC EMULGEL

A Practice School Project Report Submitted  
To  
**UNIVERSITY OF MUMBAI,**  
**MUMBAI, MAHARASHTRA, INDIA**



In partial fulfillment of the degree of  
**Bachelor of Pharmacy**

By

Mr. ~~PATIL~~ **PRATHAK PRITUNJAY KALIKA (Roll. No. 43)**  
Mr. **KUMAR SUNIL GOPAL DAS, (Roll. No. 25)**  
Mr. **KURMI SHUBHAM KUMAR SURESH, (Roll. No. 26)**  
Mr. **MATHUR SUBHENDU, (Roll. No. 28)**  
Ms. **PAL SHILPA SHIVSHANKAR, (Roll. No. 38)**  
Fourth Year B.Pharm (Sem - VII)

Under the guidance of  
**Dr. SAYYED MATEEN**  
Associate Professor  
Department of Pharmacology  
**Oriental College of Pharmacy, Sanpada**



November, 2022

**DECLARATION**

I hereby declare that this practice school project report entitled "**FORMULATION OF ANTI ARTHRITIC EMULGEL**" comprises of the bonafide work carried out by us in the laboratories of Oriental College of Pharmacy, Sanpada under the guidance and supervision of **Dr. SAYYED MATEEN** Associate Professor, Department of Pharmacology, Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree. The particulars given in this project report are true to the best of my knowledge.

Place: Sanpada

Date:

Candidate's Name and Sign

Mr. KUMAR SUNIL GOPAL DAS *Sunil*

Mr. KURMI SHUBHAM KUMAR SURESH *Shubham*

Mr. MATHUR SUBHENDU *Subhendu*

Ms. PAL SHILPA SHIVSHANKAR *Shilpa*

Mr. Mritunjay Kalika Pathak *Mritunjay*

**CERTIFICATE**

*This is to certify that this project report entitled "FORMULATION OF ANTI ARTHRITIC EMULGEL" is the bonafide project work carried out by Mr. KUMAR SUNIL GOPAL DAS, (Roll. No. 25), Mr. KURMI SHUBHAM KUMAR SURESH, (Roll. No. 26), Mr. MATHUR SUBHENDU, (Roll. No. 28), Ms. PAL SHILPA SHIVSHANKAR, (Roll. No. 38) under my guidance for the Practice School for the degree of "Bachelor of Pharmacy" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.*



**Dr. SAYYED MATEEN**

Associate Professor

Department of

Pharmacology

Place: Sanpada

Date:



This is to certify that this project report entitled "EVALUATION OF *SYZYGIUM CUMINI* BARK FOR ITS WATER PURIFICATION ACTIVITY" is the bonafide project work carried out by Aamir.Rawa, Sneha.Sampate, Naazrieenfatima.Sayeed, Harsh.Shah, under my guidance for the Practice School for the degree of "**Bachelor of Pharmacy**" at Oriental College of Pharmacy, Sanpada. The results presented in this project report have not previously formed the basis for the award of any degree.

*M. Gholkar*

**Guide name**

**Dr. Manasi Gholkar**

Assistant Professor

Department of Pharmacognosy

Place: Sanpada, Navi Mumbai

Date: